## PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING DRAWBRIDGE TRAFFIC CONTROL SIGNAL AT MD 157 OVER BEAR CREEK IN BALTIMORE COUNTY. MARYLAND. MD 157 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

DRAWBRIDGE OPERATION

THE DRAWBRIDGE OPERATION WILL REMAIN THE SAME.

CONTROLLER REQUIREMENTS

THE EXISTING DRAWBRIDGE CABINET WILL BE USED.

## MAINTENANCE OF TRAFFIC

THE FOLLOWING MINUMUM TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT.

STANDARD NO. MD-104.04-01 (SHOULDER WORK)
STANDARD NO. MD-104.04-03 (LEFT LANE CLOSURE)
STANDARD NO. MD-104.04-05 (RIGHT LANE CLOSURE)
STANDARD NO. MD-104.04-07 (CENTER LANE CLOSURE)

## PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

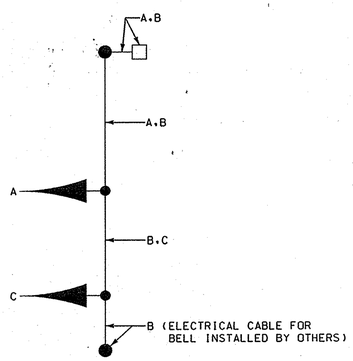
MR. RANDALL SCOTT
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 321-2781/2785

MR. STEVE MARCISZEWSKI
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 321-2761

MR. MIKE PASQUARIELLO
ASST. DISTRICT UTILITY ENGINEER
PHONE: (410) 321-2841

MR. RICHARD L. DAFF. SR.
CHIEF. TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

## WIRING DIAGRAM




WIRING KEY

A } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

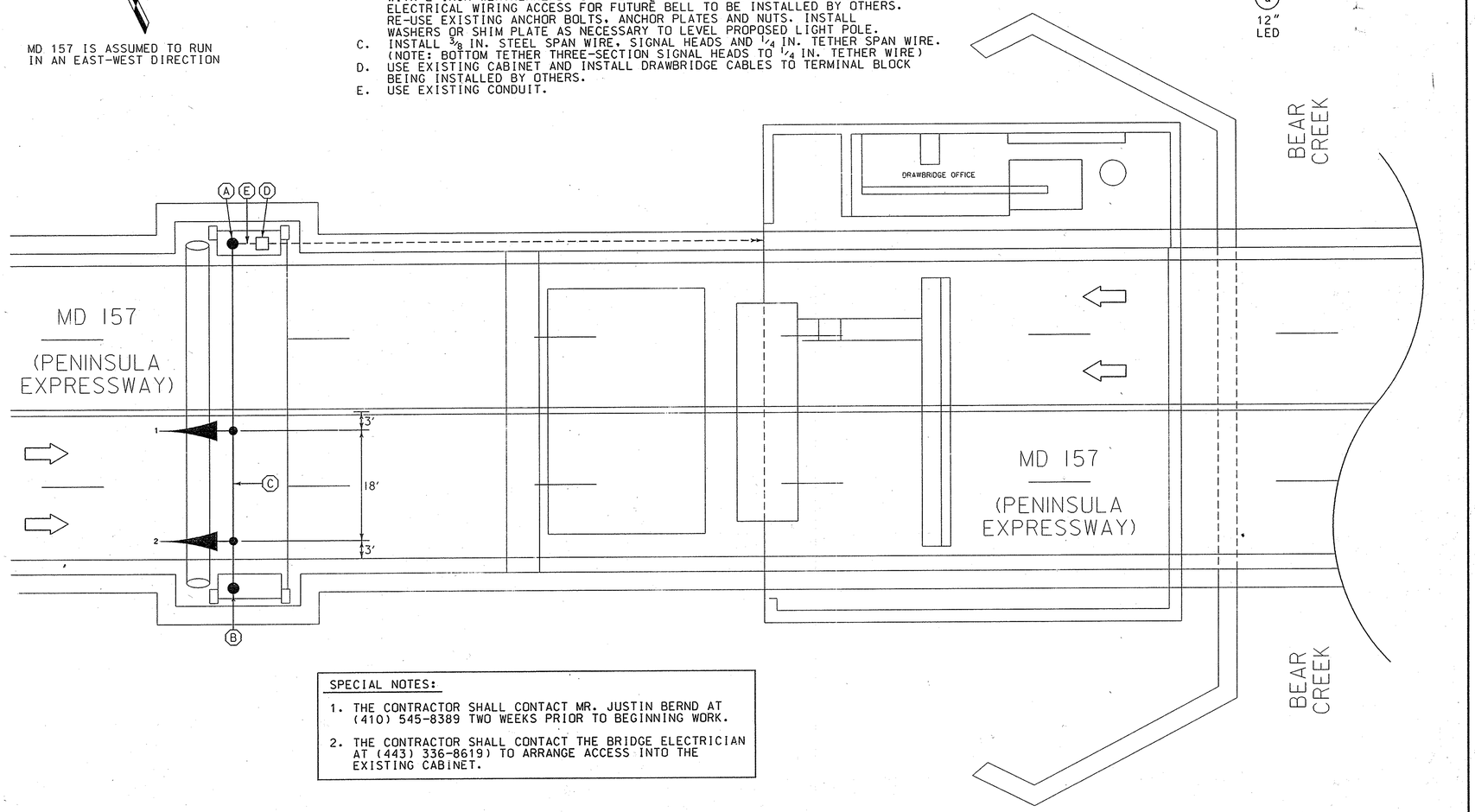
B, C } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

MD 157 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

CONSTRUCTION DETAILS

A. REMOVE EXISTING STRAIN POLE AND INSTALL LIGHT POLE WITH 2 INCH WEATHERHEAD. RE-USE EXISTING ANCHOR BOLTS. ANCHOR PLATES AND NUTS. INSTALL WASHERS OR SHIM PLATE AS NECESSARY TO LEVEL PROPOSED LIGHT POLE.
B. REMOVE EXISTING STRAIN POLE BASE PLATE AND INSTALL LIGHT POLE WITH 2 INCH WEATHERHEAD. INSTALL 1/2 INCH GROMMET ON LIGHT POLE FOR ELECTRICAL WIRING ACCESS FOR FUTURE BELL TO BE INSTALLED BY OTHERS. RE-USE EXISTING ANCHOR BOLTS. ANCHOR PLATES AND NUTS. INSTALL WASHERS OR SHIM PLATE AS NECESSARY TO LEVEL PROPOSED LIGHT POLE.
C. INSTALL 3/8 IN. STEEL SPAN WIRE. SIGNAL HEADS AND 1/4 IN. TETHER SPAN WIRE. (NOTE: BOTTOM TETHER THREE-SECTION SIGNAL HEADS TO 1/4 IN. TETHER WIRE)
D. USE EXISTING CABINET AND INSTALL DRAWBRIDGE CABLES TO TERMINAL BLOCK BEING INSTALLED BY OTHERS.
E. USE EXISTING CONDUIT.

PROPOSED SIGNAL HEADS




SPECIAL NOTES:

1. THE CONTRACTOR SHALL CONTACT MR. JUSTIN BERND AT (410) 545-8389 TWO WEEKS PRIOR TO BEGINNING WORK.
2. THE CONTRACTOR SHALL CONTACT THE BRIDGE ELECTRICIAN AT (443) 336-8619) TO ARRANGE ACCESS INTO THE EXISTING CABINET.

## EQUIPMENT LIST "A"

NO EQUIPMENT TO BE SUPPLIED BY THE SHA

## EQUIPMENT LIST "C"

NO EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

## EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

| ITEM NO. | QUANTITY | DESCRIPTION |
|---|---|---|
| 1001 | 1 EACH | MAINTENANCE OF TRAFFIC |
| 8001 | 6 EACH | 12 INCH LED SIGNAL HEAD SECTION |
| 8022 | 1 EACH | REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT AS PER ASSIGNMENT |
| 8042 | 2 EACH | WEATHER HEAD. 3 INCH |
| 8056 | 140 L.F. | ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G) |
| 8057 | 50 L.F. | ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G) |
| 8062 | 70 L.F. | STEEL SPAN WIRE - 1/4 INCH DIAMETER |
| 8063 | 70 L.F. | STEEL SPAN WIRE - 3/8 INCH DIAMETER |
| NEG. | 2 EACH | FURNISH AND INSTALL LIGHT POLE |

TOD NO:AT915-37
SHA NO:BA617A53/B53
MD 157@BEAR CREEK DRAW BRIDGE

WR&A
Whitman, Requardt and Associates, LLP
801 South Caroline Street
Baltimore, Maryland 21231
(410) 235-3450

REVISIONS

A RECONSTRUCTION OF DRAWBRIDGE SIGNAL CONTRACT AT9155185 1/21/2008

SRB | NML

APPROVALS

ORIGINAL ON FILE

TEAM LEADER - TRAFFIC ENGINEERING DESIGN DIVISION

ASST. TRAFFIC ENGINEERING DESIGN DIVISION

CHIEF TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
*Office of Traffic & Safety*
TRAFFIC ENGINEERING DESIGN DIVISION
TRAFFIC SIGNALIZATION PLAN
MD 157 (PENINSULA EXPY) DRAWBRIDGE
(BRIDGE NO. 0336500) OVER BEAR CREEK

| | | | |
|---|---|---|---|
| DRAWN BY: | F.A.P. NO. | | TS NO. 4477 |
| CHECKED BY: | S.H.A. NO. | AT7825185 | SHEET NO. |
| SCALE: 1" = 10' | COUNTY: | BALTIMORE | T.I.M.S. NO. H6001 |
| DATE: | LOG MILE: | 03015700-03 | 1 OF 1 |

m:\20008\drawbridge\drawbridgeld7.dgn